

Title (en)  
Single-mode optical fiber

Title (de)  
Optische Monomode-faser

Title (fr)  
Fibre optique monomode

Publication  
**EP 2348344 B1 20130220 (EN)**

Application  
**EP 11161756 A 20050823**

Priority  
• EP 05775131 A 20050823  
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Abstract (en)  
[origin: EP1788411A1] A single-mode optical fiber has a cut-off wavelength of 1260 nm or less, a zero-dispersion wavelength in the range of 1300 nm to 1324 nm, a zero-dispersion slope of 0.093 ps/nm<sup>2</sup>/km or less, a mode field diameter at a wavelength of 1310 nm in the range of 5.5 μm to 7.9 μm, and a bending loss of 0.5 dB or less at a wavelength of 1550 nm, the bending loss being produced when the fiber is wound around a 10-mm radius for 10 turns.

IPC 8 full level  
**G02B 6/036** (2006.01); **G02B 6/02** (2006.01)

CPC (source: EP KR US)  
**G02B 6/02266** (2013.01 - EP US); **G02B 6/028** (2013.01 - KR); **G02B 6/036** (2013.01 - KR); **G02B 6/03644** (2013.01 - EP US); **G02B 6/0365** (2013.01 - EP US); **G02B 6/03672** (2013.01 - EP US); **G02B 6/03688** (2013.01 - EP US); **G02B 6/02223** (2013.01 - EP US); **G02B 6/02242** (2013.01 - EP US); **G02B 6/03611** (2013.01 - EP US)

Citation (examination)  
MATSUO S ET AL: "Bend-insensitive and low-splice-loss optical fiber for indoor wiring in FTTH", OPTICAL FIBER COMMUNICATION CONFERENCE, 2004, IEEE, 23 February 2004 (2004-02-23), pages 3pp.vol.2, XP031988552, ISBN: 978-1-55752-772-1

Designated contracting state (EPC)  
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**EP 1788411 A1 20070523**; **EP 1788411 A4 20101027**; **EP 1788411 B1 20140101**; CN 101006372 A 20070725; CN 101006372 B 20100908; DK 1788411 T3 20140317; DK 2348344 T3 20130415; EP 2348344 A1 20110727; EP 2348344 B1 20130220; JP 4833071 B2 20111207; JP WO2006025231 A1 20080508; KR 100890976 B1 20090327; KR 20070041618 A 20070418; US 2007147756 A1 20070628; US 7440663 B2 20081021; WO 2006025231 A1 20060309

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